

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/13143

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A. CLASS Int.	SIFICATION OF SUBJECT MATTER C1 ⁷ H05K7/12		
According to	o International Patent Classification (IPC) or to both na	tional classification and IPC	
B. FIELD	S SEARCHED		
Minimum de Int.	ocumentation searched (classification system followed C1 H05K7/12	by classification symbols)	
Jitsu	ion searched other than minimum documentation to the lyo Shinan Koho 1922-1996 L Jitsuyo Shinan Koho 1971-2004	Jitsuyo Shinan Toroku Koho	1996–2004 ·
Electronic d	ata base consulted during the international search (nam	e of data base and, where practicable, sear	ch terms used)
C. DOCU	MENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where ap	•	Relevant to claim No.
. Y A	JP 11-289181 A (Yaskawa Elec 19 October, 1999 (19.10.99), Par. No. [0005] (Family: none)	tric Corp.),	1,3,4
Y A	JP 2001-230567 A (Sanwa Denk Kaisha), 24 August, 2001 (24.08.01), Par. No. [0013]; Figs. 1, 2 (Family: none)	i Kogyo Kabushiki	1,3,4
. Y	JP 8-139473 A (Matsushita El Ltd.), 31 May, 1996 (31.05.96), Par. No. [0023] (Family: none)	ectric Industrial Co.,	3,4
Further documents are listed in the continuation of Box C. See patent family annex.			
*Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search O5 January, 2004 (05.01.04) "I later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document of particular relevance; the claimed invention of onsidered to involve an inventive step when the document of particular relevance; the claimed invention of the considered novel or cannot be considered novel or cannot be considered to involve an inventive step when the document			
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egoгу*	Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim?
A	JP 59-69999 A (Mitsubishi Electric Corp.), 2 20 April, 1984 (20.04.84), Full text (Family: none)
A	JP 50-40582 A (Matsushita Electric Works, Ltd.), 2 25 December, 1975 (25.12.75), Full text (Family: none)
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